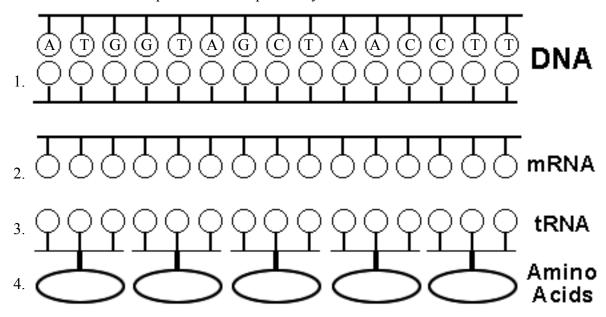
Name:	Row:		

Date:	Period:

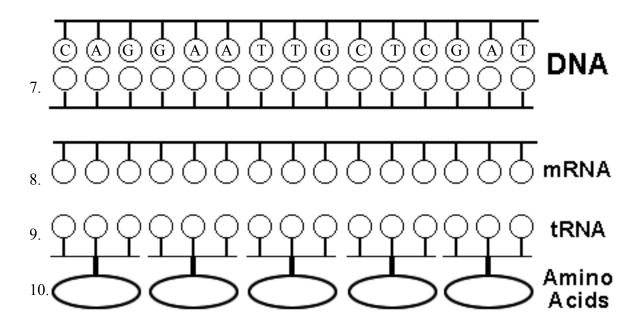
## Protein Synthesis Worksheet

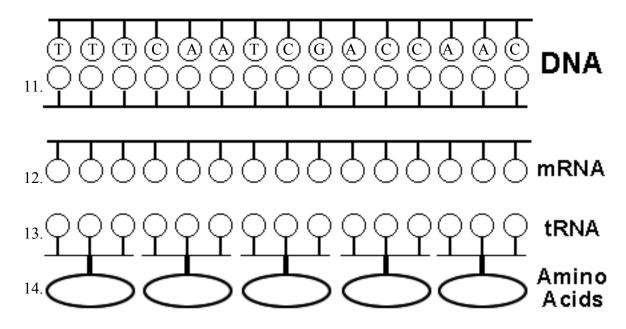
## Directions:

- 1<sup>st</sup> Fill in the complimentary DNA strand using DNA base pairing rules.
- 2<sup>nd</sup> Fill in the correct mRNA bases by transcribing the bottom DNA code.
- 3<sup>rd</sup> Translate the mRNA codons and find the correct amino acid using the Codon Table
- 4<sup>th</sup> Write in the amino acid and the correct anti-codon the tRNA molecule.
- 5<sup>th</sup> The answer to the questions about protein synthesis below the amino acids.

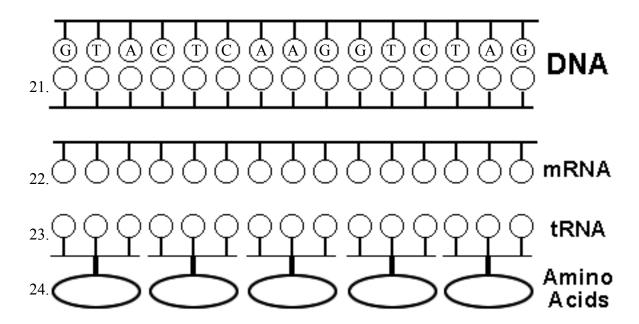


- 5. mRNA is synthesized in <u>translation</u> or <u>transcription?</u>
- 6. mRNA has codon or anti-codons?





- 15. 1 or 3 codons equal one amino acid?
- 16. tRNA brings amino acids to the <u>nucleus</u> or <u>ribosome</u>?
- 17. A polypeptide is a sequence of <u>proteins</u> or <u>amino acids</u>?
- 18. tRNA has codons or anti-codons?
- 19. tRNA transfers amino acids during translation or transcription?
- 20. Ribosomes are the site where <u>translation</u> or <u>transcription</u> takes place?



	,	U	С	Α	G	•
		Valine	Alanine	Glutamic acid	Glycine	G
	G	Valine	Alanine	Glutamic acid	Glycine	Α
	_	Valine	Alanine	Aspartic acid	Glycine	С
		Valine	Alanine	Aspartic acid	Glycine	U
e		Methionine	Threonine	Lysine	Arginine	G
B a	Α	Isoleucine	Threonine	Lysine	Arginine	Α
		Isoleucine	Threonine	Asparagine	Serine	С
		Isoleucine	Threonine	Asparagine	Serine	U
t		Leucine	Proline	Glutamine	Arginine	G
S	С	Leucine	Proline	Glutamine	Arginine	Α
1 6	_	Leucine	Proline	Histidine	Arginine	С
		Leucine	Proline	Histidine	Arginine	U
		Leucine	Serine	Stop	Tryptophan	G
U	U	Leucine	Serine	Stop	Stop	Α
		Phenylalanine	Serine	Tyrosine	Cysteine	С
		Phenylalanine	Serine	Tyrosine	Cysteine	U

2nd Base